

THE SAMPLE STORAGE PLAY-OFFS

UPRIGHT MANUAL FREEZER VS SAM HD AUTOMATED SYSTEM

DEPENDABILITY

When it comes to sample storage, one mistake is all it takes for precious samples and years of hard work to be sidelined.⁽¹⁾ An uninterruptible power supply (UPS) and liquid nitrogen (LN₂) backup are just a few highlights among SAM HD's elite capabilities to mitigate disaster scenarios.

SAMPLE INTEGRITY

The interior temperature of a -80°C upright manual freezer, when opened for a mere 60 seconds, can rise as much as 8.1°C⁽²⁾, putting samples at risk. To avoid this potential penalty, the fully automated SAM HD minimizes freeze-thaw cycles that harm your samples and hinder your research.

FROST FREE

We have heard of putting your competition on ice, but icing your samples? That is a frosty proposition to say the least. Instead, you and your samples can both chill out knowing that SAM HD plays defense against heat and moisture in the precisely controlled, sealed storage area. Samples are frost-free and match-ready whenever you need them.

SECURITY

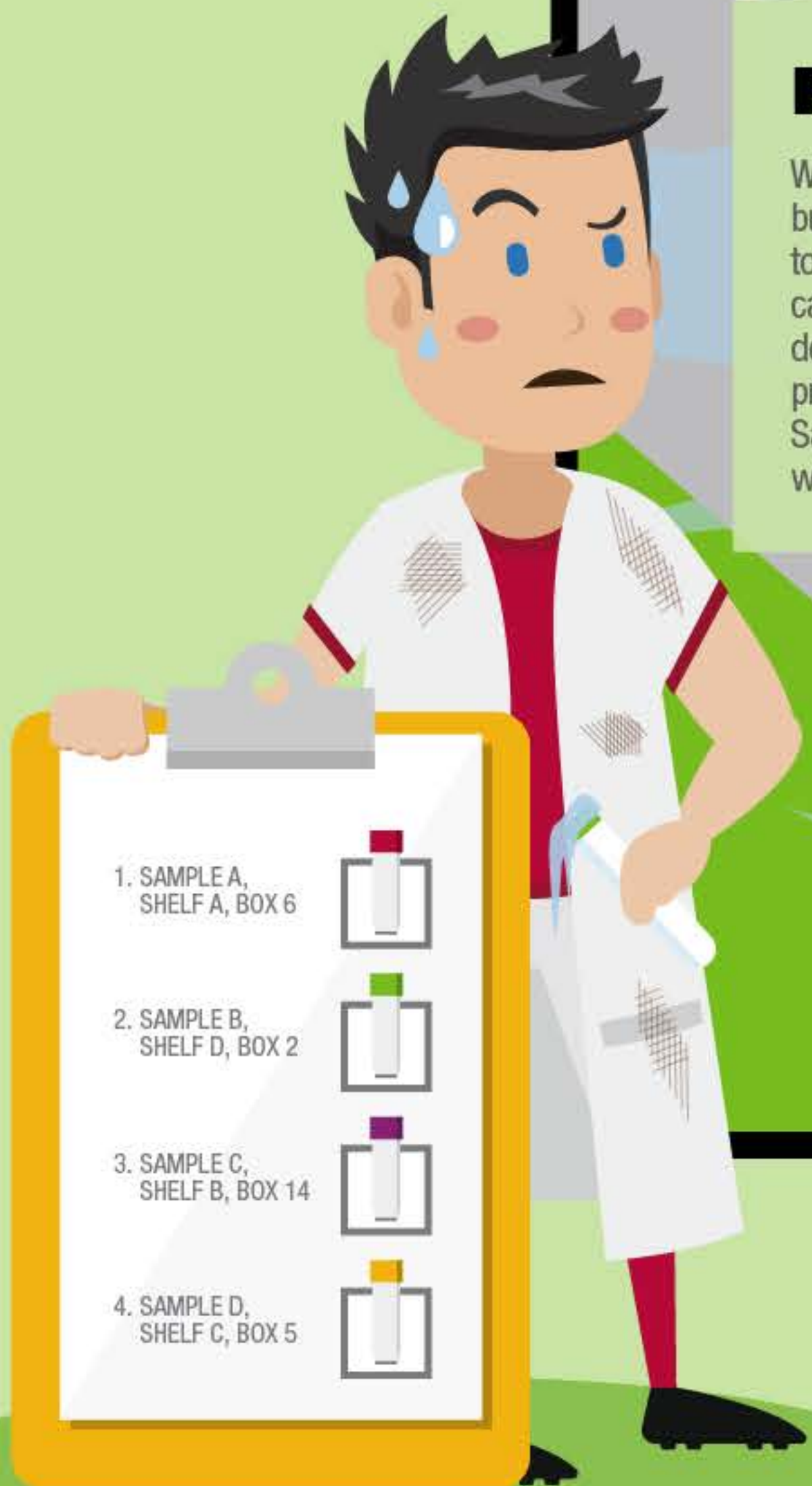
The best offense is a good defense, especially when it comes to your samples. SAM HD's INSTINCT S software, featuring automated inventory and full audit trails, acts as your proactive guide when securely storing samples. Additionally, access control features, including user permission levels and lockout controls, defend against any potential counterattacks.

CONVENIENCE

SAM HD users often win big thanks to the system's superior performance. In less than 70 seconds, SAM HD automatically retrieves the samples you need – including different tube and plate types. Barcode scanning confirms sample identities for an extra measure of confidence.

CONNECTIVITY

There's no 'I' in team, nor is there one in SAM HD. The system works seamlessly with your laboratory information management system (LIMS) for a true team effort. SAM HD is also equipped with INSTINCT S, software that is so intuitive and user-friendly even a rookie can use it.



1. Clarke, T. Hospital freezer fault destroys crucial brain data. Reuters, June 11, 2012 Available from: <https://www.reuters.com/article/us-brain-research-damage/hospital-freezer-fault-destroys-crucial-brain-data-idINBRE85A1EG20120611> [Accessed February 15, 2021].

2. Farley, M.; McTeir, B.; Arnett, A.; Evans, A. Efficient ULT Freezer Storage. An Investigation of ULT Freezer Energy and Temperature Dynamics. King's College and The University of Edinburgh, 2015. Available from: <https://www.ed.ac.uk/files/atoms/files/efficient-ult-freezer-storage.pdf> [Accessed February 15, 2021].



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